

SEQUENCE LISTING

<110> KITAMURA, TOSHIO
FUJIO, KEISHI

<120> CYTOKINE RECEPTOR-LIKE PROTEINS

<130> 084335/0143

<140> 09/913,728

<141> 2001-08-17

<150> JP 1999-041936

<151> 1999-02-19

<160> 34

<170> PatentIn Ver. 2.1

<210> 1

<211> 1278

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (59)..(1135)

<400> 1

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Met Ala Trp Ala Leu Ala Val Ile Leu Leu Pro Arg Leu Leu Thr Ala
   1               5               10               15

gca gcg gcg gcg gcg gcg gtg acg tca cgg ggt gat gtc aca gtc gtc      154
Ala Ala Ala Ala Ala Ala Val Thr Ser Arg Gly Asp Val Thr Val Val
               20               25               30

tgc cat gac ctg gag acg gtg gag gtc acg tgg ggc tcg ggc ccc gac      202
Cys His Asp Leu Glu Thr Val Glu Val Thr Trp Gly Ser Gly Pro Asp
               35               40               45

cac cac ggc gcc aac ttg agc ctg gag ttc cgt tat ggt act ggc gcc      250
His His Gly Ala Asn Leu Ser Leu Glu Phe Arg Tyr Gly Thr Gly Ala
               50               55               60

ctg caa ccc tgc ccg cga tat ttc ctg tcc ggc gct ggt gtc act tcc      298
Leu Gln Pro Cys Pro Arg Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser
   65               70               75               80

ggg tgc atc ctc ccc gcg gcg agg gcg ggg ctg ctg gag ctg gca ctg      346
Gly Cys Ile Leu Pro Ala Ala Arg Ala Gly Leu Leu Glu Leu Ala Leu
               85               90               95

cgc gac gga ggc ggg gcc atg gtg ttt aag gct agg cag cgc gcg tcc      394
Arg Asp Gly Gly Gly Ala Met Val Phe Lys Ala Arg Gln Arg Ala Ser
               100               105               110

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gcc tgg ctg aag ccc cgc cca cct tgg aat gtg acg ctg ctc tgg aca	442
Ala Trp Leu Lys Pro Arg Pro Pro Trp Asn Val Thr Leu Leu Trp Thr	
115 120 125	
cca gac ggg gac gtg act gtc tcc tgg cct gcc cac tcc tac ctg ggc	490
Pro Asp Gly Asp Val Thr Val Ser Trp Pro Ala His Ser Tyr Leu Gly	
130 135 140	
ctg gac tac gag gtg cag cac cgg gag agc aat gac gat gag gac gcc	538
Leu Asp Tyr Glu Val Gln His Arg Glu Ser Asn Asp Asp Glu Asp Ala	
145 150 155 160	
tgg cag acg acc tca ggg ccc tgc tgt gac ttg aca gtg ggc ggg ctc	586
Trp Gln Thr Thr Ser Gly Pro Cys Cys Asp Leu Thr Val Gly Gly Leu	
165 170 175	
gac ccc gcg cgc tgc tat gac ttc cgg gtt cgg gcg tcg ccc cgg gcc	634
Asp Pro Ala Arg Cys Tyr Asp Phe Arg Val Arg Ala Ser Pro Arg Ala	
180 185 190	
gcg cac tat ggc ctg gag gcg cag cct agc gag tgg aca gcg gtg aca	682
Ala His Tyr Gly Leu Glu Ala Gln Pro Ser Glu Trp Thr Ala Val Thr	
195 200 205	
agg ctt tcc ggg gca gca tcc gcg gcc tcc tgt acc gca agc ccc gcc	730
Arg Leu Ser Gly Ala Ala Ser Ala Ala Ser Cys Thr Ala Ser Pro Ala	
210 215 220	
cca tcc ccg gcc ctg gcc ccg ccc ctc ctg ccc ctg ggc tgc ggc cta	778
Pro Ser Pro Ala Leu Ala Pro Pro Leu Leu Pro Leu Gly Cys Gly Leu	
225 230 235 240	
gca gcg ctg ctg aca ctg tcc ctg ctc ctg gcc gcc ctg agg ctt cgc	826
Ala Ala Leu Leu Thr Leu Ser Leu Leu Leu Ala Ala Leu Arg Leu Arg	
245 250 255	
agg gtg aaa gat gcg ctg ctg ccc tgc gtc cct gac ccc agc ggc tcc	874
Arg Val Lys Asp Ala Leu Leu Pro Cys Val Pro Asp Pro Ser Gly Ser	
260 265 270	
ttc cct gga ctc ttt gag aag cat cac ggg aac ttc cag gcc tgg att	922
Phe Pro Gly Leu Phe Glu Lys His His Gly Asn Phe Gln Ala Trp Ile	
275 280 285	
gcg gac gcc cag gcc aca gcc ccg cca gcc agg acc gag gag gaa gat	970
Ala Asp Ala Gln Ala Thr Ala Pro Pro Ala Arg Thr Glu Glu Glu Asp	
290 295 300	
gac ctc atc cac ccc aag gct aag agg gtg gag ccc gag gac ggc acc	1018
Asp Leu Ile His Pro Lys Ala Lys Arg Val Glu Pro Glu Asp Gly Thr	
305 310 315 320	
tcc ctc tgc acc gtg cca agg cca ccc agc ttc gag cca agg ggg ccg	1066
Ser Leu Cys Thr Val Pro Arg Pro Pro Ser Phe Glu Pro Arg Gly Pro	
325 330 335	

gga ggc ggg gcc atg gtg tca gtg ggc ggg gcc acg ttc atg gtg ggc 1114
Gly Gly Gly Ala Met Val Ser Val Gly Gly Ala Thr Phe Met Val Gly .
340 345 350

gac agc ggc tac atg acc ctg tgaccttgaa gtcactgcc a gtctatactt 1165
Asp Ser Gly Tyr Met Thr Leu
355

caggctgagg tcacttctctg tcttttaaata attcaaactc acaaattcttg tgcttgtctg 1225
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<210> 2
<211> 359
<212> PRT
<213> Mus musculus
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			20						25					30		
Cys	His	Asp	Leu	Glu	Thr	Val	Glu	Val	Thr	Trp	Gly	Ser	Gly	Pro	Asp	
		35					40					45				
His	His	Gly	Ala	Asn	Leu	Ser	Leu	Glu	Phe	Arg	Tyr	Gly	Thr	Gly	Ala	
	50					55					60					
Leu	Gln	Pro	Cys	Pro	Arg	Tyr	Phe	Leu	Ser	Gly	Ala	Gly	Val	Thr	Ser	
65					70					75					80	
Gly	Cys	Ile	Leu	Pro	Ala	Ala	Arg	Ala	Gly	Leu	Leu	Glu	Leu	Ala	Leu	
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Arg	Asp	Gly	Gly	Gly	Ala	Met	Val	Phe	Lys	Ala	Arg	Gln	Arg	Ala	Ser	
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Pro	Asp	Gly	Asp	Val	Thr	Val	Ser	Trp	Pro	Ala	His	Ser	Tyr	Leu	Gly	
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Leu	Asp	Tyr	Glu	Val	Gln	His	Arg	Glu	Ser	Asn	Asp	Asp	Glu	Asp	Ala	
145					150					155					160	
Trp	Gln	Thr	Thr	Ser	Gly	Pro	Cys	Cys	Asp	Leu	Thr	Val	Gly	Gly	Leu	
				165					170					175		
Asp	Pro	Ala	Arg	Cys	Tyr	Asp	Phe	Arg	Val	Arg	Ala	Ser	Pro	Arg	Ala	
			180					185					190			
Ala	His	Tyr	Gly	Leu	Glu	Ala	Gln	Pro	Ser	Glu	Trp	Thr	Ala	Val	Thr	
		195					200					205				

Arg Leu Ser Gly Ala Ala Ser Ala Ala Ser Cys Thr Ala Ser Pro Ala
210 215 220

Pro Ser Pro Ala Leu Ala Pro Pro Leu Leu Pro Leu Gly Cys Gly Leu
225 230 235 240

Ala Ala Leu Leu Thr Leu Ser Leu Leu Leu Ala Ala Leu Arg Leu Arg
245 250 255

Arg Val Lys Asp Ala Leu Leu Pro Cys Val Pro Asp Pro Ser Gly Ser
260 265 270

Phe Pro Gly Leu Phe Glu Lys His His Gly Asn Phe Gln Ala Trp Ile
275 280 285

Ala Asp Ala Gln Ala Thr Ala Pro Pro Ala Arg Thr Glu Glu Glu Asp
290 295 300

Asp Leu Ile His Pro Lys Ala Lys Arg Val Glu Pro Glu Asp Gly Thr
305 310 315 320

Ser Leu Cys Thr Val Pro Arg Pro Pro Ser Phe Glu Pro Arg Gly Pro
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Gly Gly Gly Ala Met Val Ser Val Gly Gly Ala Thr Phe Met Val Gly
340 345 350

Asp Ser Gly Tyr Met Thr Leu
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<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (98)..(661)

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Met Ala Trp Ala Leu Ala
1 5

gtc atc ctc ctg cct cgg ctc ctt acg gcg gca gcg gcg gcg gcg gcg 163
Val Ile Leu Leu Pro Arg Leu Leu Thr Ala Ala Ala Ala Ala Ala
10 15 20

gtg acg tca cgg ggt gat gtc aca gtc gtc tgc cat gac ctg gag acg 211
Val Thr Ser Arg Gly Asp Val Thr Val Val Cys His Asp Leu Glu Thr
25 30 35

gtg gag gtc acg tgg ggc tcg ggc ccc gac cac cac ggc gcc aac ttg 259
Val Glu Val Thr Trp Gly Ser Gly Pro Asp His His Gly Ala Asn Leu
40 45 50

agc ctg gag ttc cgt tat ggt act ggc gcc ctg caa ccc tgc ccg cga 307
 Ser Leu Glu Phe Arg Tyr Gly Thr Gly Ala Leu Gln Pro Cys Pro Arg
 55 60 65 70
 tat ttc ctg tcc ggc gct ggt gtc act tcc ggg tgc atc ctc ccc gcg 355
 Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser Gly Cys Ile Leu Pro Ala
 75 80 85
 gcg agg gcg ggg ctg ctg gag ctg gca ctg cgc gac gga ggc ggg gcc 403
 Ala Arg Ala Gly Leu Leu Glu Leu Ala Leu Arg Asp Gly Gly Gly Ala
 90 95 100
 atg gtg ttt aag gct agg cag cgc gcg tcc gcc tgg ctg aag ccc cgc 451
 Met Val Phe Lys Ala Arg Gln Arg Ala Ser Ala Trp Leu Lys Pro Arg
 105 110 115
 cca cct tgg aat gtg acg ctg ctc tgg aca cca gac ggg gac gtg act 499
 Pro Pro Trp Asn Val Thr Leu Leu Trp Thr Pro Asp Gly Asp Val Thr
 120 125 130
 gtc tcc tgg cct gcc cac tcc tac ctg ggc ctg gac tac gag gtg cag 547
 Val Ser Trp Pro Ala His Ser Tyr Leu Gly Leu Asp Tyr Glu Val Gln
 135 140 145 150
 cac cgg gag agc aat gac gat gag gac gcc tgg cag acg acc tca ggg 595
 His Arg Glu Ser Asn Asp Asp Glu Asp Ala Trp Gln Thr Thr Ser Gly
 155 160 165
 ccc tgc tgt gac ttg aca gtg ggc ggg gcc acg ttc atg gtg ggc gac 643
 Pro Cys Cys Asp Leu Thr Val Gly Gly Ala Thr Phe Met Val Gly Asp
 170 175 180
 agc ggc tac atg acc ctg tgaccttgaa gtcactgccca gtctatactt 691
 Ser Gly Tyr Met Thr Leu
 185
 caggctgagg tcacttcctg tctttaaata attcaaactc acaaatcctg tgccctgtctg 751
 tatgcaaagt tggtcacgaa tattcaaata aaatgcaaatt gctatgctaa aaa 804

<210> 4
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 <212> PRT
 <213> Mus musculus

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 Cys His Asp Leu Glu Thr Val Glu Val Thr Trp Gly Ser Gly Pro Asp
 35 40 45

His His Gly Ala Asn Leu Ser Leu Glu Phe Arg Tyr Gly Thr Gly Ala
 50 55 60
 Leu Gln Pro Cys Pro Arg Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser
 65 70 75 80
 Gly Cys Ile Leu Pro Ala Ala Arg Ala Gly Leu Leu Glu Leu Ala Leu
 85 90 95
 Arg Asp Gly Gly Gly Ala Met Val Phe Lys Ala Arg Gln Arg Ala Ser
 100 105 110
 Ala Trp Leu Lys Pro Arg Pro Pro Trp Asn Val Thr Leu Leu Trp Thr
 115 120 125
 Pro Asp Gly Asp Val Thr Val Ser Trp Pro Ala His Ser Tyr Leu Gly
 130 135 140
 Leu Asp Tyr Glu Val Gln His Arg Glu Ser Asn Asp Asp Glu Asp Ala
 145 150 155 160
 Trp Gln Thr Thr Ser Gly Pro Cys Cys Asp Leu Thr Val Gly Gly Ala
 165 170 175
 Thr Phe Met Val Gly Asp Ser Gly Tyr Met Thr Leu
 180 185

<210> 5
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 5
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19

<210> 6
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 6
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<210> 7
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 7

ggtgatgtca cagtcgtctg ccatg

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<210> 8

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 8

acggtccgca ggagtagcag taa

23

<210> 9

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 9

aaagaattcc cgcccctcct gccctgggc

30

<210> 10

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 10

gctggcggcc gcacctgcag gcgc

24

<210> 11

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 11

aaagaattcg ggggctgtat catggac

27

<210> 12

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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<210> 13

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

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ggtaggggaat tccggaattt cctcgagatg

30

<210> 14

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 14

aaagaattcc caggcgggtct cggtggcggt

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<210> 15

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 15

aaagaattcg ttaacccgcc cctcctgccc ctgggg

36

<210> 16

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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35

<210> 17

<211> 27

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 17
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<210> 18
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 18
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<210> 19
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<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 19
aaagcggccg ctcagtcac agagcaagcc acatagct 38

<210> 20
<211> 38
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 20
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<210> 21
<211> 38
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 21
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<210> 22
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 22
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<210> 23
 <211> 27
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Primer

<400> 23
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<210> 24
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 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 24
 Asp Tyr Lys Asp Asp Asp Asp Lys
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<210> 25
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

<400> 25
 agggaattcc ggaatttcct cgagatc 27

<210> 26
 <211> 59
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

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<210> 27
<211> 255
<212> PRT
<213> Mus sp.

<400> 27
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Leu Leu Leu Arg Ala Gly Trp Ser Ser Lys Val Leu Met Ser Ser Ala
20 25 30
Asn Glu Asp Ile Lys Ala Asp Leu Ile Leu Thr Ser Thr Ala Pro Glu
35 40 45
His Leu Ser Ala Pro Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val
50 55 60
Phe Asn Ile Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
65 70 75 80
Gln Ala Thr Asn Leu Thr Leu His Tyr Arg Tyr Lys Val Ser Asp Asn
85 90 95
Asn Thr Phe Gln Glu Cys Ser His Tyr Leu Phe Ser Lys Glu Ile Thr
100 105 110
Ser Gly Cys Gln Ile Gln Lys Glu Asp Ile Gln Leu Tyr Gln Thr Phe
115 120 125
Val Val Gln Leu Gln Asp Pro Gln Lys Pro Gln Arg Arg Ala Val Gln
130 135 140
Lys Leu Asn Leu Gln Asn Leu Val Ile Pro Arg Ala Pro Glu Asn Leu
145 150 155 160
Thr Leu Ser Asn Leu Ser Glu Ser Gln Leu Glu Leu Arg Trp Lys Ser
165 170 175
Arg His Ile Lys Glu Arg Cys Leu Gln Tyr Leu Val Gln Tyr Arg Ser
180 185 190
Asn Arg Asp Arg Ser Trp Thr Glu Leu Ile Val Asn His Glu Pro Arg
195 200 205
Phe Ser Leu Pro Ser Val Asp Glu Leu Lys Arg Tyr Thr Phe Arg Val
210 215 220
Arg Ser Arg Tyr Asn Pro Ile Cys Gly Ser Ser Gln Gln Trp Ser Lys
225 230 235 240
Trp Ser Gln Pro Val His Trp Gly Ser His Thr Val Glu Glu Asn
245 250 255

<210> 28
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 <212> PRT
 <213> Mus sp.

<220>
 <221> MOD_RES
 <222> (29)..(47)
 <223> Variable amino acid

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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro
 35 40 45
 Lys Ala Lys Arg Val Glu Pro Glu Asp Gly Thr Ser Leu Cys Thr
 50 55 60

<210> 29
 <211> 60
 <212> PRT
 <213> Mus sp.

<220>
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 <222> (29)..(44)
 <223> Variable amino acid

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 20 25 30
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Pro Pro Ala
 35 40 45
 His Leu Glu Val Leu Ser Glu Pro Arg Trp Ala Val
 50 55 60

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 <211> 58
 <212> PRT
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 <222> (29)..(42)
 <223> Variable amino acid

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Ser Gln His Gly Gly Asp Leu Gln Lys Trp Leu Ser Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Glu Ile Ser Pro Leu
 35 40 45

Glu Val Leu Asp Gly Asp Ser Lys Ala Val
 50 55

<210> 31

<211> 54

<212> PRT

<213> Mus sp.

<220>

<221> MOD_RES

<222> (19)..(38)

<223> Variable amino acid

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 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Thr Asp Val Ser Val Val Glu Ile Glu Ala
 35 40 45

Asn Asn Lys Lys Pro Cys
 50

<210> 32

<211> 74

<212> PRT

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: Type 1 Cytokine
 receptor

<220>

<221> MOD_RES

<222> (25)..(58)

<223> Variable amino acid

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Gly Gly Lys Gly Leu Trp Pro Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Asn Val Ser Pro Leu
 50 55 60

Thr Ile Glu Asp Pro Asn Ile Ile Arg Val
 65 70

<210> 33

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative
 peptide

<400> 33

Leu Glu Val Leu

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<210> 34

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Illustrative
 peptide

<220>

<221> MOD_RES

<222> (3)

<223> Variable amino acid

<400> 34

Trp Ser Xaa Trp Ser

1

5